

Table WEB 1: Summary of DNOP General Toxicity Study in Rats

Strain	Experimental Regimen	Number	Dose ^a (mg/kg/day)	Body Weight	Organ Weight	Histopathology	Hematology	Chemistry	Other
Sprague- Dawley Poon et al. 1997	Young male and female rats were fed diets containing DNOP for 13 weeks, then killed and necropsied. A positive control group was exposed to DEHP.	20	0						
		20	0.4	NE	NE	NE	NE	NE	
		20	3.5(M)/4.1(F)	NE	NE	NE	NE	↑PO ₄ (F)	NOAEL
		20	36.8(M)/40.8(F)	NE	NE	NE	NE	NE	
		20	350.1(M)/402.9(F)	NE	NE	Mild lesions in liver. Thyroid follicle reduction and decreased colloid density.	NE	↑EROD ↑ Ca (M)	
		10	345(M)/411(F) DEHP	NE	- Li, Ki (M), Te	No peroxisome proliferation or testicular lesions. Testicular atrophy, liver and thyroid lesions, and peroxisomal proliferation	- WBC (F), PC H _g (F), MCV (F)	- Al, PO ₄ , Ca (M), protein (F), APD, AH	

NA=Not analyzed

NE=No effects

↑= Statistically significant increase

↓=Statistically significant decrease

M=Male

F=Female

Li=Liver

Ki=Kidney

Te=Testes

EROD=Ethoxyresorufin-O-deethylase

APD=Aminopyrine-N-demethylase activity

AH=Aniline hydroxylase

Ca=Calcium

PC=Platelet count

Hg=Hemoglobin

MCV=Mean Corpuscular Volume

Al=Albumin

Table : Summary of DNOP Developmental Toxicity Study

Strain	Experimental Regimen	Number	Dose mg/kg bw	Effects	
				Maternal	Fetal
Sprague-Dawley Rat Singh et al. et al. 1972	Prenatal developmental toxicity study.	5	0	Not mentioned in paper	
	DNOP administered by intraperitoneal injection on gd 5, 10, and 15.	5	4890		↓ Fetal weight ↑ External malformations (16% fetuses with gross abnormalities)
	Dams killed on gd 20, corpora lutea counted and implantation sites examined. Fetuses weighed, examined for viability and gross external malformations. 30-50% of fetuses examined for skeletal malformations.	5	9780		↓ Fetal weight ↑ External malformations (27% fetuses with gross abnormalities)

Table WEB-2: Summary of DnOP Reproductive Toxicity Study in Mice

Strain	Experimental Regimen	Number ^a	Dose ^b (mg/kg bw/day)	Effects
CD-1 Mice	Dose range finding study.		0-10,000	Rough hair coat in high dose group
(Heindel et al. 1989; Gulati et al. 1985)	Fertility assessment through continuous breeding for 14 weeks.	36	0	
	DNOP administered in feed.	20	1800	No effect
	Body weight measured at 6 timepoints, clinical signs, and food and water intake recorded.	18	3600	No effect
	Litters counted, sexed, weighed, observed for abnormalities, and removed following birth.	20	7500	No adverse effects on sperm morphology; estrous cycles or other reproductive parameters in F ₁
	Final litter raised ; some control and high dose F ₁ weanlings mated for fertility assessment; F ₁ organ weights measured at necropsy.			No effect on fertility index, mating index, numbers of litters produced, live pups/litter, sex ratio, or pup weight ↓ Percent abnormal sperm in F ₁ ↓ Seminal vesicle to body weight ratio in F ₁ ↑ Liver and Kidney(females) to body weight ratio in F ₁

^a Number of male and female pairs; half the number of controls used for F₁ study

^b Author-calculated doses based on male mice

